Office of Materials Engineering and Testing
Structural Materials Testing Section

PREQUALIFIED STEEL REINFORCING COUPLERS ON ASTM A 706

(All mechanical splices are on plain black bar unless noted differently. Coupler on epoxy coated bars require a plastic shrink sleeve cover.)

TYPE & COMPANY	SERVICE*	ULTIMATE*
SLEEVE-SWAGED		
1. BARGRIP - by Barsplice	#3 through #18	#5 through #18 XL Series
1b. TAPER THREADED GRIP-TWIST by Barsplice	#3 through #14	#3 through #14
2. GRIP-TEC by Dayton/Richmond	#4 through #14, #18	
SLEEVE-FORGED		
6B. DAYTON/ RICHMOND DB/DI COUPLER	#4 through #11	#4 through #11
6B. DAYTON/ RICHMOND US/MC COUPLER	#6 through #11	#4 through #9 and #11
SLEEVE- LOCK SHEAR BOLTS		
3. BAR LOCK - L SERIES	#3 through #14 and Green Epoxy Coated	
S - SERIES	#4 through #18	
4. ZAP- Barsplice	#4 through # 11	
SLEEVE- THREADED BAR		
5. BAR XL - Barlock	#6 through #18	#6 through #11, & #18
SLEEVE-TAPERED THREAD		
6. ERICO LENTON STANDARD , TRANSITION, POSITION, & FORMSAVER	#3 through #18 Black; #14 & #18 must have 3.5 mm thread pitch	
6B. ERICO LENTONÒ LOCKÔ REBAR SPLICE SYSTEM	#8	#8
7. FOX-HOWLETT STANDARD & POSITION	#6 through #18,	
SLEEVE- FILLER METAL		
8. ERICO CADWELD	#18	
SLEEVE-FILLER GROUT COUPLER		
9. SPLICE SLEEVE N.AMERICA (NMB)	#4 through #18	

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TYPE & COMPANY	SERVICE*	ULTIMATE*
UPSET BAR ENDS - DOWEL BARS INCLUDED		
10. DAYTON/ RICHMOND		
US/MC INERTIAL WELDED	#8 through #18	#8
US/MC FORGED	#6 through #11	#7, #9 through #11
TWO PC. WELD-ON COUPLER		
HRC 535 Xtender	#7 & #8	#7 & #8
TWO PC. SLEEVE/ FORGED ENDS		
11. HRC - HEADED REINFORCEMENT CO.		
HRC-410/420	#8 through #18	#8 through #18
HRC-410/490 Position	#8 through #18	#8 through #18
HRC-510 Xtender	#4 through #14	#4 through #14
HRC XT 511/512 Transistion	#5 through #11	#5 through #11
HRC XT520	#4 through #14	#4 through #14

* The Service splice represents the current Standard Specifications Section 52-1.08C, which requires 80,000 psi minimum tensile strength and meeting the total slip of the reinforcing bars within the splice after specified loading.
It also must meet job control tests as specified in Standard Specification Section 52-1.08E.

* An Ultimate splice is defined as a steel reinforcing bar butt splicing system that will break the bar outside the splicing effected zone or meet 95% of a control (from the same heat) bar's ultimate tensile strength with visible necking of the bar material. The usage of the Utimate system is contingent upon meeting prequalification tests and then production tests taken from in-place samples. It must also meet total slip requirements. The designer will specify on the drawings when an Utimate splice is required.

MECHANICAL LAP SPLICE

WEDGE THRU SLEEVE	
1. OS SPLICE CLIP	#4,5,&6
2. ERICO QUICK -WEDGE	#4,5 &6 Two Clips per Splice
SIDE BY SIDE	
1. BARSPLICE ZAP (DBZ) and Transistion	#4, 5, & 6

A615 - GRADE 75 REINFORCEMENT BAR SPLICES

SLEEVE-THREADED BAR	
1. DYWIDAG SYSTEMS INTN'L	#11 & #20
2. WILLIAMS ENGINEERING	#14 & #18

A722 REINFORCEMENT BAR SPLICES

SLEEVE-THREADED BAR	
1. WILLIAMS ENGINEERING	2.5"

NOTE: This table was prepared to provide a reference source for rebar splicing systems currently prequalified for use on splices by the California Department of Transportation on their projects. The Department assumes no liability or responsibility for the accuracy or validity of this information if used by other agencies or offices. Operator qualification, production tests, and job control testing of samples from the construction sites are required to ensure current product performance. If you have any questions regarding the material contained herein, please feel free to contact the Office of Materials Engineering and Testing , Structural Materials Testing Branch (916 227-7251)

Caltrans- METS **Updated April 9, 2003**

Division of Materials Engineering and Testing
Structural Materials Testing Branch
PREQUALIFIED STEEL REINFORCING COUPLERS
FOR CURVED SPLICES (*hoops)*

TYPE & COMPANY	ASTM A706
SLEEVE- SWAGED	
1. BARGRIP	#5 through #8 & #14
TWO PC. SLEEVE/ FORGED ENDS	
2. HEADED REINFORCEMENT CO.	
HRC-510	#5 through #8
EXTENDER	
HRC-571 & 572 ADJ. TENSION HOOP	#8

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